

**CALIFORNIA AIR RESOURCES BOARD  
MONTHLY QUALITY MAINTENANCE CHECK SHEET  
API MODEL 200E TOTAL OXIDES OF NITROGEN ANALYZER**

Location: \_\_\_\_\_ Month/Year: \_\_\_\_\_  
 Station Number: \_\_\_\_\_ Technician: \_\_\_\_\_  
 Property Number: \_\_\_\_\_ sn: \_\_\_\_\_ Agency: \_\_\_\_\_

Test Parameters		Readings				
	<b>DATE:</b>					
TIME (PST)	Current time of day (HH:MM)					
RANGE	500 ppb					
NO <sub>x</sub> STABIL	< 1.0 with Zero Air (Record Only)					
SAMP FLOW*	500 ± 50 cc/min					
OZONE FLOW*	80 ± 15 cc/min					
PMT	0-5000 mV (Record Only)					
NORM PMT	0-5000 mV (Record Only)					
AZERO	Constant ± 20 mV					
HVPS	Constant (400 – 800 V)					
RCELL TEMP	50 ± 1°C					
BOX TEMP	Station Temp ± 5°C					
PMT TEMP	7 ± 2°C					
MOLY TEMP	315 ± 5°C					
RCEL PRES	< 10 in-Hg-A – Constant ± 0.5					
SAMP PRES	Ambient ± 1 in-Hg					
NO <sub>x</sub> SLOPE	1.0 ± 0.3 - No Changes					
NO <sub>x</sub> OFFSET	-50 to +150 mV – No Changes					
NO SLOPE	1.0 ± 0.3 – No Changes					
NO OFFSET	-10 to +150 mV – No Changes					

\* Flow values may need to be corrected for sampling at altitude.

**OPERATOR INSTRUCTIONS:**

CHECKS	TASKS	DATE
DAILY	Review DMS data and CARBLogger diagnostic e-mails.	
WEEKLY	Record instrument diagnostic parameters on QC form.	
	Change internal 1um PTFE particulate filter	
MONTHLY	Complete and submit monthly QC form	
SEMI-ANNUAL	Calibrate Analyzer	
ANNUAL	Replace reaction cell O-rings and sintered filters	
	Change ozone filter chemical	
	Change DFU filters	
	Perform leak check (or after major repair)	
AS NECESARY	Clean RCELL Window	
	Low-Level hardware calibration of PMT Sensor	
	Pump Rebuild (or when RCEL press > 10 in-Hg-A)	
	Replace NO2 converter (or C.E. drops below 96%)	

Date	Comments or Maintenance Performed:

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_